TP-LINK®

User Guide

Archer T4UH

AC1200 High Gain Wireless Dual Band USB Adapter



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http://www.tp-link.com

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

This device is restricted in indoor environment only.

CE Mark Warning $C \in 0700 \, \odot$

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

RF Exposure Information

This device meets the EU requirements (1999/5/EC Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

This device has been tested and meets the ICNIRP exposure guidelines and the European Standard EN 62209-2. SAR is measured with this device at a separation of 0.5 cm to the body, while transmitting at the highest certified output power level in all frequency bands of this device. Carry this device at least 0.5 cm away from your body to ensure exposure levels remain at or below the as-tested levels.

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

CAN ICES-3 (B)/NMB-3(B).

Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice

注意!

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻 率、加大功率或變更原設計之特性或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行; 經發現有干擾現象時, 應立 即停用, 並改善至無干擾時方得繼續使用。前項合法通信, 指依電信規定作業之無線電信。低功 率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。 減少電磁波影響, 請妥適使用。

安全諮詢及注意事項

- ●請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- ●清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- ●注意防潮,請勿將水或其他液體潑灑到本產品上。
- ●插槽與開口供通風使用,以確保本產品的操作可靠並防止過熱,請勿堵塞或覆蓋開口。
- ●請勿將本產品置放於靠近熱源的地方。除非有正常的通風,否則不可放在密閉位置中。
- ●請不要私自打開機殼,不要嘗試自行維修本產品,請由授權的專業人士進行此項工作。

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EAC

Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.

AT	BE	BG	СН	CY	CZ	DE	DK
EE	ES	FI	FR	GB	GR	HR	HU
IE	IS	IT	LI	LT	LU	LV	MT
NL	NO	PL	PT	RO	SE	SI	SK

For EU/EFTA, this product can be used in the following countries:

Explanation of the symbols on the product label

Symbol	Explanation
	DC voltage
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

DECLARATION OF CONFORMITY

For the following equipment:

Product Description: AC1200 High Gain Wireless Dual Band USB Adapter

Model No.: T4UH

Trademark: TP-LINK

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives:

Directives 1999/5/EC, Directives 2006/95/EC, Directives 1999/519/EC, Directives 2011/65/EU

The above product is in conformity with the following standards or other normative documents:

EN 300 328 V1.8.1

EN 301 489-1 V1.9.2 & EN 301 489-17 V2.2.1

EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013

EN 50566: 2013

EN 301 893 V1.7.1

The product carries the CE Mark:



Person responsible for making this declaration:

Yang Hongliang Product Manager of International Business

Date of issue: 2016-03-14

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Chapter 1 Product Overview

1.1 Introduction

The TP-LINK Archer T4UH AC1200 High Gain Wireless Dual Band USB Adapter connects your notebook or desktop computer over Wi-Fi to an 11ac or other network for applications such as lag-free video streaming, online gaming, and secure Internet surfing.

1.2 Features

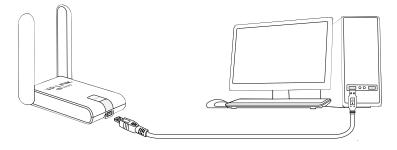
- Supports 802.11ac standard
- > Seamlessly compatible with 802.11a/b/g/n/ac products
- ➢ USB 3.0 port
- > Dual Band connections for lag-free HD video streaming and gaming
- Maximum speed of up to 867Mbps for 5GHz network and up to 300Mbps for 2.4GHz network
- > Supports ad-hoc and infrastructure mode
- > Easy wireless security encryption at a push of the WPS button
- Supports 64/128 WEP, WPA/WPA2, WPA-PSK/WPA2-PSK(TKIP/AES), supports IEEE 802.1x
- Easy Wireless Configuration Utility
- Supports Windows XP/7/8/8.1/10 32/64bit, Mac OS X 10.7 10.10, Linux

1.3 LED Status

Status	Working Status
Off	The driver has not been installed. The adapter's radio has been disabled.
Flashing Slowly The driver has been installed but no data is being transmitted or rece	
Flashing Quickly Data is being transmitted or received.	

Chapter 2 Connect to a Computer

Before you begin using your adapter, insert the adapter into a USB port on your computer using the USB cable provided.



PNote:

- In Windows XP, a Found New Hardware Wizard window will appear when the adapter is detected. Please click Cancel.
- The adapter provides the best performance with a USB 3.0 port and is also compatible with a USB 2.0 or USB 1.1 port.

After connecting your adapter to the computer, please follow the instructions in the appropriate chapter for your operating system: <u>Windows</u>, <u>Mac OS X</u>, <u>Linux</u>.

Chapter 3 Windows

3.1 Install Driver and Utility

The Setup Wizard will guide you through the installation procedures. We use the procedures in Windows 7 as an example - the procedures may vary slightly for other versions of Windows.

1. Insert the resource CD into your CD drive and click the **Run Autorun.exe** from the pop-up AutoPlay window. Select **Archer T4UH** and click **Install Driver and Utility** to begin.



PNote:

- The CD is included in the package. If your CD does not work or your computer doesn't support the CD, you can also download the driver and utility from the TP-LINK website (www.tp-link.com).
- In some operating systems, the CD screen will pop up automatically. Otherwise, run the CD manually.
- 2. The InstallShield Wizard window displays. Click Next to continue.



3. Choose a setup type. It is recommended to select **Install TP-LINK Wireless Configuration Utility and Driver**. Click **Next**.

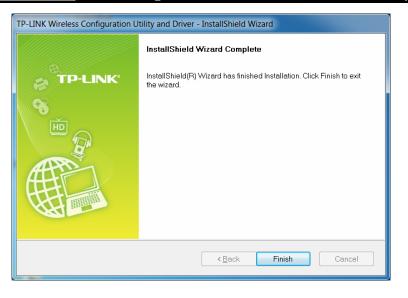
TP-LINK Wireless Configuration Utility and Driver - InstallShi	eld Wizard
Setup Type Select the setup type that best suits your needs.	TP-LINK
Click the type of setup you prefer. Install Driver Only	Description
Install TP-LINK Wireless Configuration Utility and Driver	Choose this option to install TP-LINK Wireless Configuration Utility and driver. This is the recommended option.
InstallShield	k Next > Cancel

4. If you want to change install location, click **Change** to specify the location for the software installation. Or you can leave it default. Click **Next**.

TP-LINK Wire	less Configuration Utility and Driver - InstallShield Wizard	X
Select the	e folder where setup will install files.	TP-LINK
	Install TP-LINK Wireless Configuration Utility and Driver to:	
	C\\TP-LINK\TP-LINK Wireless Configuration Utility	Change
InstallShield -		
	< Back Next >	Cancel

5. Click Install. After a few minutes, the installation completes. Click Finish.

TP-LINK Wireless Configuration Utility and Driver - InstallShield Wizard	X
Ready to Install the Program	
The wizard is ready to begin installation. TP-LIP	VK
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield	
< <u>B</u> ack Install Cancel	



6. TP-LINK utility pops up after installation. Its icon appears on the desktop as and in the Windows system tray as . You can use the TP-LINK utility to join a Wi-Fi network with your adapter. For more guidance, please refer to Join a Wireless Network.

	WPS		<u>,</u>	200	
Status	WPS	Network	Profile	Advanced	
Network Nam	e(SSID) 👻	Secu	rity 👻	Channel 👻	Signal 🤜
TP-LINK_7CA	926	None		4 (2.4G)	-all
TP-LINK_Net	work	WPA2	-Personal	9 (2.4G)	1000
TP-LINK_130	969	None		44 (5G)	1000
TP-LINK_BF1	34C	B WPAA	NPA2-Enterpris	e 4 (2.4G)	-mil
TP-LINK_130	919	None		7 (2.4G)	1000
TP-LINK_DE	1C2E	WPA/	WPA2-Personal	149 (5G)	
TPLINK_DAT	A_TRANS	WPA-	Personal	11 (2.4G)	
TP-LINK_D94	F73	B WEP		7 (2.4G)	and line

3.2 Join a Wireless Network

There are three options of using the adapter to join a Wi-Fi network.

Option 1: TP-LINK Utility

TP-LINK Utility lets you easily connect the adapter to a Wi-Fi network and manage the adapter.

Option 2: WPS (Wi-Fi Protected Setup)

WPS (Wi-Fi Protected Setup) is a network security standard for easily adding computers and other devices to a home network. Use this method if your wireless router or access point supports WPS.

Option 3: Windows Wireless Utility

You can use the Windows WLAN Autoconfig service (for Windows 7/8/8.1/10) and the Wireless Zero Configuration service (for Windows XP) to join a Wi-Fi network.

3.2.1 TP-LINK Utility

1. Double-click *(TP-LINK Utility icon)*. The **Network** screen displays.

TP-LIN	к				F	
Status	WPS	Network	Profile	Advanced		
Network Name	e(SSID) 👻	Securi	ty –	Channel 👻	Signal 🤜	
TP-LINK_7CA	.926	None		4 (2.4G)	in.	^
TP-LINK_Netv	work	WPA2-	Personal	9 (2.4G)		
TP-LINK_130	969	None		44 (5G)	.atl	=
TP-LINK_BF1	34C	🔒 WPA/M	/PA2-Enterpris	e 4 (2.4G)		
TP-LINK_130	919	None		7 (2.4G)	1000	
TP-LINK_DE	1C2E	WPA/W	/PA2-Personal	149 (5G)		
TPLINK_DATA	TRANS	WPA-P	ersonal	11 (2.4G)		
TP-LINK_D94	F73	🖬 WEP		7 (2.4G)		-
					Rescar	1

2. Select the network you want to join from the list on this screen and click **Connect**. If you want the adapter to automatically connect to the network next time, select the **Connect automatically** checkbox. Enter your Wi-Fi password when prompted.

7	P-LIN	к				=	x
	Status	WPS	Network	Profile	Advanced		
	Network Nam	e(SSID) 👻	Se	ecurity 👻	Channel 👻	Signal 🤜	
	TP-LINK_7CA	4926	Nor	ie	4 (2.4G)	.atl	^
	TP-LINK_Net	work	S WP	A2-Personal	9 (2.4G)	.atl	
			Conr	nect automatically	Con	nect	ш
	TP-LINK_130	969	Nor	ne	44 (5G)	In	
	TP-LINK_BF1	34C	🔒 WP	A/WPA2-Enterpr	rise 4 (2.4G)		
	TP-LINK_130	919	Nor	1e	7 (2.4G)	100	
	TP-LINK_DE	1C2E	🖬 WP	A/WPA2-Person	al 149 (5G)	1800	
	TPLINK_DAT	A_TRANS	🔒 WP	A-Personal	11 (2.4G)	.atil	-
						Rescan	

PNote:

If your Wi-Fi network is not displayed in the list, you can try to join it by <u>WPS</u> or by adding a profile in the <u>Profile</u> screen.

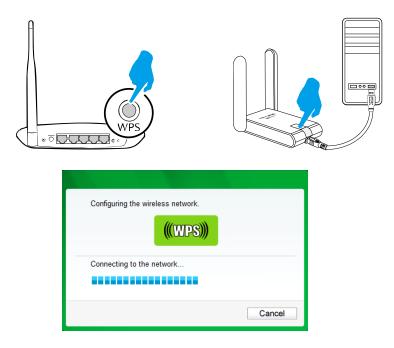
3.2.2 WPS (Wi-Fi Protected Setup)

WPS can be activated via PBC (Push Button Configuration) and PIN code. Please refer to <u>PBC</u> or <u>PIN</u> below.

> PBC

Option 1

1. Press the **WPS/QSS** button on your router or AP. Within 2 minutes, press and hold the **WPS** button on the adapter until the following screen appears.



2. The following screen indicates a successful connection by WPS. Click **OK**.



Option 2

1. Press the **WPS/QSS** button on your router or AP.



2. Open TP-LINK Utility and click **WPS** tab. Select **Push the button on my access point or wireless router** and click **Connect**.

TP-LIN The Reliable Choice	к				
Status	WPS WPS	Network	Profile	Advanced	
Push the	ose a method to	join a wireless netw ccess point or wirele	vork: ess router.	g your wireless network	C
		ss point or wireless		outer.	Connect

3. The following screen indicates a successful connection by WPS. Click **OK**.

Configuring the wireless network.
(((WPS)))
Successfully connected to the network by WPS !
ОК

> PIN

Option 1

1. Open TP-LINK Utility and click **WPS** tab. Select **Enter the PIN of my access point or wireless router**. Enter the PIN of your router or AP. Click **Connect**.

	к				- x
			4	100 m	
Status	WPS	Network	Profile	Advanced	
	ose a method to	ion will guide you th join a wireless netw ccess point or wirele	rork:	g your wireless network	
		ss point or wireless			
PIN: 1349	2564				
C Enter the	e PIN of this devic	ce into my access p	oint or wireless r	outer	
					Connect

Note:

The default PIN of your router or AP is printed on the product label of your router or AP. If you generated a new PIN for your router, please enter the new one.

2. The following screen indicates a successful connection by WPS. Click **OK**.

Configuring the wireless network.
Successfully connected to the network by WPS !

Option 2

1. Open TP-LINK Utility and click **WPS** tab. Select **Enter the PIN of this device into my access point or wireless router**. The screen displays a PIN of the adapter, which is generated randomly. Click **Connect**.

	к				
-	WPS		\$	and the second se	
Status	WPS	Network	Profile	Advanced	
((WPS)	This applicat	ion will guide you th	nrough configuring	g your wireless networ	k.
Please cho	ose a method to	join a wireless netw	ork:		
	Schendler (1991)	cess point or wireless point or wireless			
		e into my access p		outer.	
	2306	(*)			
					Connect

- 2. Log in to the Web Management page of your router or AP. Go to the **WPS** page, enter the PIN of the adapter in the corresponding field and click **Connect**.
- 3. The following screen indicates a successful connection by WPS. Click **OK**.



3.2.3 Windows Wireless Utility

Follow the instructions in the appropriate section below to use your computer system's built-in wireless utility: Windows 7/8/8.1/10, Windows XP.

Windows 7/8/8.1/10 \geq

1. Click 🕍, 📶 or 🎏 (Network icon) on the system tray. Select the network you want to

join, and click Connect. Enter your Wi-Fi password when prompted.

2. When the network icon changes to \mathbf{III} or \mathbf{III} , it indicates a successful network connection.

PNote:

If you do not want to enter the Wi-Fi password, you can also join a wireless network either by pushing the WPS or QSS button on your router or AP, or entering the PIN of your router when the screen prompts you to do so, and click Next.

Windows XP \triangleright

1. Right-click [3] (TP-LINK Utility icon) on the system tray. (If you do not see the icon, click the hidden icons arrow on the system tray.) Select Switch to Windows wireless configuration tool.

	Open			
	Radio OFF			
	Switch to Windows wireless configuration tool			
I	Switch to SoftAP mode			
	About			
	Exit			
Ì	EN 🕥 👬	13	28	

Or you can open the TP-LINK Utility, select Advanced tab, then select Use Windows wireless configuration tool.

2. Right-click (Windows XP Wireless Zero Configuration Utility icon) on the system tray,

and select View Available Wireless Networks.

Change Windows Firewall settings	
Open Network Connections	With March 1991
Repair	evaluated in the second
View Available Wireless Networks	THE REPORT FOR THE PARTY
EN 🔇	👷 📶 🛃 🏌 🟮 🛄 - 3:12 PM -

3. Select the network you want to join, and click **Connect**. Enter your Wi-Fi password when prompted.

3.3 Management

TP-LINK Utility provides you with an easy way to manage your adapter. It includes the following sections:

Status - View the information of the current Wi-Fi network connection and of the adapter.

Profile - Save or manage various Wi-Fi network connection settings.

<u>Advanced</u> - Turn on or off the SoftAP mode and power saving mode, switch between TP-LINK Utility and Windows Wireless Utility (for Windows XP only).

<u>SoftAP</u> - Configure the settings of the network shared by your adapter, and view the IP address of your adapter when it works on SoftAP mode.

<u>About</u> – View your adapter's Utility version and its Driver version.

Double-click (TP-LINK Utility icon) and click the **Status**, **Profile** or **Advanced** tab to manage the corresponding section of your adapter.

3.3.1 Status

You can view the IP address and MAC address of the adapter, the signal strength of the Wi-Fi network, and other information of the network status as shown in the following figure.

	C			=
	WPS			2000 - C
Status	WPS	Network	Profile	Advanced
Profile Name	:	TP-LINK_Network		
Network Nan	ne(SSID):	TP-LINK_Network		
Network Type	e:	Infrastructure	Rate:	300Mbps
Channel:		9 (2.4G)	Encryptic	on Type: AES
AP MAC:		00-55-46-50-02-01	Wireless	Mode: 802.11n
IP Address:		192.168.0.101		
Signal Streng	gth:			100% Excellent

3.3.2 Profile

The **Profile** screen lets you save and manage different Wi-Fi network connection settings as profiles so that you can quickly and simply connect to your network. Moreover, you can join a hidden Wi-Fi network that does not broadcast its SSID by adding a profile, provided that you know its wireless settings, such as SSID, security type, and encryption type. For more details, please refer to the instructions below: <u>To add a new profile</u>, <u>To join a Wi-Fi network</u>, <u>To manage an existing profile</u>.

Status	WPS	Network	Profile	Advanced	
Profile Name TP-LINK Network	SSID TP-LINK	Network	Network Type	Security WPA-PSK/WPA	Connected Yes
Home	TP-LINK_	Network_5G	Infrastructure	WPA-PSK/WPA	No
		Add	Modify	Remove	Connect

> To add a new profile

- 1. Click the **Add** button, and then a new window will open.
- 2. Complete the settings as shown in the following figure, and click **Save**.

Profile Name:	Home		
SSID:	TP-LINK_Network_5G	¥	
Network Type:	 Infrastructure) ad hoc	8
Security Type:	WPA-PSK/WPA2-PSK	¥	
Encryption Type:	TKIP/AES	~	
Security Key:	******		Show characters
Start this connection	ction automatically.		
		5	Save Cancel

Profile Name - Enter a name for your profile, such as Home, Office, Coffeehouse. Do not enter the profile name that already exists.

SSID - Select your Wi-Fi network from the drop-down list or enter your Wi-Fi network name manually.

Network Type - Select **Infrastructure** if you want to connect to a wireless router or an access point. Select **ad hoc** if you want to connect to another wireless client, such as an adapter.

Infrastructure

If you select **Infrastructure**, you are asked to select or enter the corresponding wireless settings, which should be the same as those of your Wi-Fi network.

• ad hoc

If you select **ad hoc**, you are asked to configure the wireless settings for your network, including choosing the operating frequency band, the security type, the encryption type and setting a security key.

Profile Name:	Home 2		
SSID:	TP-LINK_0201	~	
Network Type:) Infrastructure	() ad hoc	
Band:	2.4Ghz	~	
Security Type:	WEP	*	
Encryption Type:	Open	~	
Key Index:	1 ~	ASCII_64 ✓	
Security Key:	****		Show characters
Start this connect	ction automatically.		
			Save Cancel

Note:

As for Key Index, you can select ASCII or Hexadecimal format from the drop-down list.

ASCII_64 - Please enter 5 ASCII characters.

ASCII_128 - Please enter 13 ASCII characters.

Hexadecimal_64 - Please enter 10 Hexadecimal digits (any combination of 0-9, a-f, A-F, excluded space).

Hexadecimal_128 - Please enter 26 Hexadecimal digits (any combination of 0-9, a-f, A-F, excluded space).

> To join a Wi-Fi network

If you want to join a Wi-Fi network that listed in the profile screen, select the profile and click **Connect** button in the bottom right corner.

> To manage an existing profile

If you want to change the name or the wireless settings of an existing profile, select it and click the **Modify** button in the Profile screen, then you can edit the settings of this profile. If you want to delete a profile that you no longer use, select it and click the **Remove** button.

3.3.3 Advanced

P-LIN Reliable Choice	ĸ				F
	WPS		¢.	200	
Status	WPS	Network	Profile	Advanced	
Select wirel	ess configuration	n tool			
				ws wireless configuration to	ol
		network adapter :	Archer T4UH		•
SoftAP mod	le				
ON (OFF			
Power Save	mode				
i onci ouro					

Select wireless configuration tool - In Windows XP. You can either use TP-LINK Utility or Windows wireless configuration tool. While in other operating systems, since you can use both TP-LINK Utility and Windows wireless configuration tool at the same time, this function is disabled.

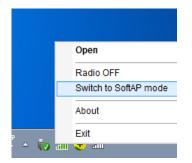
Wireless network adapter switch - If you've installed several adapters in your computer, you can switch to another adapter among the drop-down list.

SoftAP mode - Once ON is selected, the adapter will work as an AP.

Power Save mode - Once **ON** is selected, the adapter will automatically reduce its power consumption when not being used.

3.3.4 SoftAP

SoftAP is short for Software enabled Access Point. When the adapter works in SoftAP mode, it allows the computer to create a wireless hotspot that other wireless devices nearby can use. To switch to SoftAP mode, right-click the utility icon ...II in the system tray and select **Switch to SoftAP mode**.



After switching to SoftAP mode, the SoftAP icon appears in the utility. Click the **SoftAP** tab, and complete the settings, then click **Apply** for the settings to take effect.

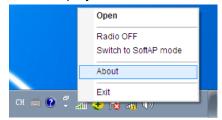
	К				- x
Status	WPS	Network	Profile	Advanced	Soft AP
SSID: Security Ty Encryption Security K	nnecting Share(ICS /pe: Type: ey:	SoftAP WPA2-PS AES 12345678	n	▼ ▼ ▼ ▼ Show ch	aracters
IP Address		192.168.1	37.1		Apply

> Soft AP mode: Select ON or OFF to enable or disable this function.

- Internet Connecting Share(ICS): Select a network connection that can access to the Internet from the drop-down list. For example, if your computer is connecting to the Internet via an Ethernet cable, you should select the corresponding Local Area Connection so as to share the network with other wireless devices.
- > **SSID:** Set a name for the wireless network shared by your adapter. The default is SoftAP.
- Security Type: The security type here is set to be WPA2-PSK which is based on 802.11i and uses AES (Advanced Encryption Standard).
- > **Encryption Type:** The encryption type here is set to be AES.
- Security Key: Set a security key for the wireless network that shared by your adapter. It is recommended that you specify another key instead of the default key 12345678. When another wireless device connects to the network shared by your adapter, it will be asked to enter the corresponding security key.
- IP Address: Displays the IP address of the adapter when it works in SoftAP mode. You can also check if the network shared by your adapter is working properly by checking this IP Address. For example, if the IP Address is 0.0.0.0, it means that the Internet connection is failed.

3.3.5 About

You can view the adapter's information in the **About** screen, such as the UI version (Utility version) and the Driver version. Right-click ...II (TP-LINK Utility icon) in the system tray and select **About**, then the About screen displays.



3.4 Uninstall Driver and Utility

The software uninstallation steps vary a bit in different systems, please follow the appropriate instructions for your Windows operating system: <u>Windows 8/8.1/10</u>, <u>Windows XP/7</u>.

• Windows 8/8.1/10

Uninstall driver:

Go to **Start > Apps**, and find the **TP-LINK** application. Click **Uninstall - TP-LINK Archer T4UH Driver**, then follow the on-screen instructions to complete the uninstallation.

Uninstall utility:

Go to **Start > Apps**, and find the **TP-LINK** application. Click **Uninstall - TP-LINK Wireless Configuration Utility**, then follow the on-screen instructions to complete the uninstallation.

• Windows XP/7

Uninstall driver:

Go to **Start > All Programs > TP-LINK > Uninstall - TP-LINK Archer T4UH Driver**. Follow the on-screen instructions to complete the uninstallation.

Uninstall utility:

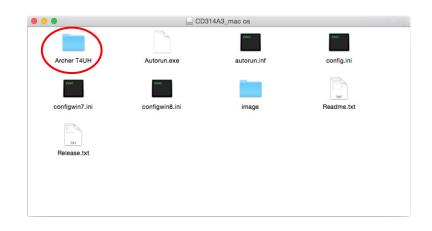
Go to **Start > All Programs > TP-LINK > Uninstall - TP-LINK Wireless Configuration Utility**. Follow the on-screen instructions to complete the uninstallation.

Chapter 4 Mac OS X

4.1 Install Driver and Utility

We take the procedures in Mac OS X 10.10 as an example - the procedures may vary slightly for other versions of Mac OS.

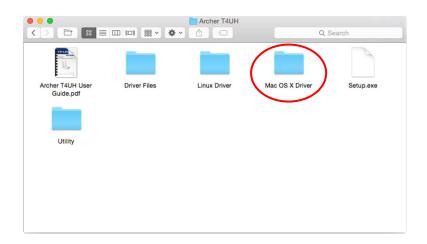
1. Insert the CD and run it manually. Open the Archer T4UH folder.



Note:

The CD is included in the package. If your CD does not work or your computer doesn't support the CD, you can also download the driver and utility from the TP-LINK website (www.tp-link.com).

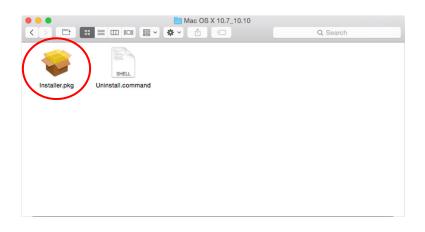
2. Open the Mac OS X Driver folder.



3. Double-click the **Mac OS X** *version.zip* file. It will be unzipped into the **Download** folder automatically.



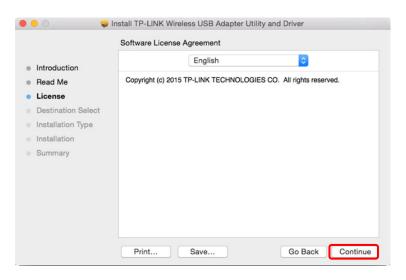
4. Open the **Mac OS X** *version* folder, double click the **Installer.pkg** file to open the installation wizard.



5. The Install TP-LINK Wireless USB Adapter Utility and Driver Wizard window will appear. Click Continue and follow the wizard to continue the installation.

90 💝	Install TP-LINK Wireless USB Adapter Utility and Driver
	Welcome to the TP-LINK Wireless USB Adapter Utility and Driver Installer
	Welcome to TP-LINK Wireless world
Introduction	
Read Me	
License	
Destination Select	
Installation Type	
Installation	
Summary	
	Go Back Continue
	Go Back

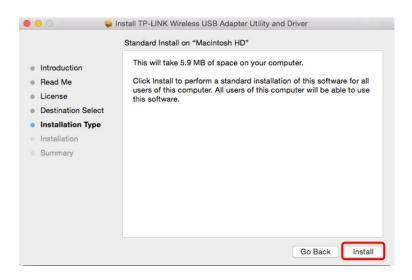
0 😜	Install TP-LINK Wireless USB Adapter Utility and Driver							
	Important Information							
Introduction Read Me	This is the Mac OS X driver for TP-LINK Wireless USB Adapter. If you have already installed an older version of software, please uninstall it first by executing "Uninstall.command". Then you can install this version of software successfully. Otherwise, this software can not be upgraded successfully. The system is							
License	required to reboot after the driver is installed, so please close all the other applications before installing this software. After the system boots up and you							
Destination Select	enter the system, please follow the following steps to configure the network: 1. Select the "System Preference" from the system menu.							
Installation Type	 Select and launch the "Network" item in the "System Preference" folder. From the "Configure" list, select the correct adapter and configure it. 							
Installation	Configure the settings.							
Summary	 Click the "Save" button. Then you can connect to the WLAN. 							
	Print Save Go Back Continue							



PNote:

The language of this utility is in accordance with the language of your computer by default, and any change of it is invalid.

0		Install TP-LINK Wireless USB Adapter Utility and Driver
0	Introdu Read I	To continue installing the software you must agree to the terms of the software license agreement. Click Agree to continue or click Disagree to cancel the installation and quit the Installer.
•	Licens	
	Destin	Read License Disagree Agree
	Install	
	Installation	
	Summary	
		Print Save Go Back Continue



0 0	Install TP-LINK Wireless USB Adapter Utility and Driver
	Installing TP-LINK Wireless USB Adapter Utility and Driver
 Introduction Read Me License Destination Select Installation Type Installation Summary 	Optimizing system for installed software
	Go Back Continue

•••	Install TP-LINK Wireless USB Adapter Utility and Driver
 Introduction Read Me License Destination Select 	The installation was completed successfully.
 Installation Type 	The installation was successful.
 Installation Summary 	The software was installed.
	Click Restart to finish installing the software.
	Go Back Restart

 After restarting the computer, the TP-LINK utility will pop up automatically. You can use the utility to join a Wi-Fi network with your adapter. For more guidance, please refer to <u>Join a</u> <u>Wireless Network</u>.

Note:

If the TP-LINK Utility does not pop up automatically, make sure the USB wireless network adapter is connected properly and the LED is on.

4.2 Join a Wireless Network

There are two options of using the adapter to join a Wi-Fi network.

Option 1: TP-LINK Utility

TP-LINK Utility lets you easily connect the adapter to a Wi-Fi network and manage the adapter.

Option 2: WPS (Wi-Fi Protected Setup)

WPS (Wi-Fi Protected Setup) is a network security standard for easily adding computers and other devices to a home network. Use this method if your wireless router or access point supports WPS.

4.2.1 TP-LINK Utility

1. Open the TP-LINK Utility and select **Available Network** tab. Then select the network you want to join from the list and click **Connect**.

	Link Status Pro	files	Available Network	WPS Informa	tion
Associated	SSID	Channe	Network Type	Encryption	BSSID
	TP-LINK_07D4	1	Infrastructure	WPA2-PSK AES	fcd733ab07d4
	TP-LINK_7AFF_4	11	Infrastructure	WPA2-PSK AES	1e0aeb147af5
	qiugr	11	Infrastructure	WPA2-PSK AES	f81a672ee837
	TP-LINK_Network	9	Infrastructure	WPA2-PSK AES	002586123466
	TP-LINK_HyFi_14	11	Infrastructure	No Encryption	284982048214
	TP-LINK_7AFF_2	11	Infrastructure	WPA2-PSK AES	1e0aeb147af1
	iTV-A94x	11	Infrastructure	WPA(2)-PSK AE	38e595be184d
	CMCC-WEB	11	Infrastructure	No Encryption	80f62e0a3040
	TP-LINK_1A0F	11	Infrastructure	WPA2-PSK AES	000aeb841a0f
	ChinaNet-A94x	11	Infrastructure	WPA(2)-PSK AE	38e595be184d
	CMCC	11	Infrastructure	WPA2 AES	80f62e010441
	TP-LINK_Extender	11	Infrastructure	No Encryption	60e32766de7t
	CMCC	11	Infrastructure	WPA2 AES	80f62e0cc601
	and-Business	11	Infrastructure	No Encryption	80f62e0cc602
	CMCC-FREE	11	Infrastructure	No Encryption	80f62e0cc603
		11	Infrastructure	WPA2-PSK AES	00037fbef2a8
	TO LINUX ADAA	^	1. f		
	Refre	sh		C	Connect

2. The wireless network security properties screen displays. If your network uses wireless security, you will be prompted to enter the Wi-Fi password of the network in the blank field next to **Network key**, and enter it again in the blank field next to **Confirm network key**. Click **OK**.

	Wireless Netv	work Secu	rity Properties		
Profile Name : TP-LINK	_Network				
SSID : TP-LINK	_Network				
Wireless Network Security Prop	erties				
		-			
Network Authentication :	WPA2_PSK	0			
Data Encryption :	TKIP	۵			
ASCII					
Key index (advanced) :	1	0			
Network key :	•••••				
Confirm network key :	•••••				
				_	
			Cancel		ОК

After successfully connecting to your network, it will switch to Link Status screen automatically, which will show the network status. If you select Available Network tab, you will see a symbol
in front of your network's SSID, which indicates a successful connection.

	Link Status Pro	files 🦯	vailable Network	WPS Informa	tion
Associated	SSID	Channel	Network Type	Encryption	BSSID
	TP-LINK_07D4	1	Infrastructure	WPA2-PSK AES	fcd733ab07d4
	TP-LINK_7AFF_4	11	Infrastructure	WPA2-PSK AES	1e0aeb147af5
\sim	qiugr	11	Infrastructure	WPA2-PSK AES	f81a672ee837
(·)	TP-LINK_Network	9	Infrastructure	WPA2-PSK AES	002586123466
$\overline{}$	TP-LINK_HyFi_14	11	Infrastructure	No Encryption	284982048214
	TP-LINK_7AFF_2	11	Infrastructure	WPA2-PSK AES	1e0aeb147af1
	iTV-A94x	11	Infrastructure	WPA(2)-PSK AE	38e595be184d
	CMCC-WEB	11	Infrastructure	No Encryption	80f62e0a3040
	TP-LINK_1A0F	11	Infrastructure	WPA2-PSK AES	000aeb841a0f
	ChinaNet-A94x	11	Infrastructure	WPA(2)-PSK AE	38e595be184c
	CMCC	11	Infrastructure	WPA2 AES	80f62e010441
	TP-LINK_Extender	11	Infrastructure	No Encryption	60e32766de7b
	CMCC	11	Infrastructure	WPA2 AES	80f62e0cc601
	and-Business	11	Infrastructure	No Encryption	80f62e0cc602
	CMCC-FREE	11	Infrastructure	No Encryption	80f62e0cc603
		11	Infrastructure	WPA2-PSK AES	00037fbef2a8
	TO LINE ADAA	^	1-4	WIDAO DOV AFO	
	Refres	h		C	onnect

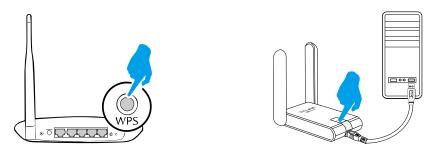
4.2.2 WPS (Wi-Fi Protected Setup)

WPS can be activated via PBC (Push Button Configuration) and PIN. Please refer to <u>PBC</u> or <u>PIN</u> below.

> PBC

Option 1

1. Press the **WPS/QSS** button on your router or AP. Within 2 minutes, press and hold the **WPS** button on the adapter until the following screen appears.



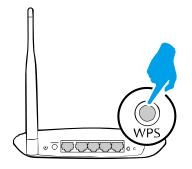
		us	Profiles	Available Network	WF	S Informatio	n
SSID		Char	inel	Security		BSSID	
P-LINK_	Network	9		WPA2-PSK A	ES	002586123466	
P-LINK_	1122	4		WPA2-PSK A	ES	40169f001122	
P-LINK_	1A0F	11		WPA2-PSK A	ES	000aeb841a0f	
P-LINK_	8786	1		WPA2-PSK A	ES	c49046738786	
P-LINK_	7AFE_5G_1	36		WPA2-PSK A	ES	000aeb147afe	
530_5g_	rootap	149		No Encryption	n	d85d4c021702	
P-LINK_	1122_5G	44		MPA2-PSK A	ES	40169f001124	
P-LINK_	BF50FA	1		WPA2-PSK A	ES	40169fbf50fa	
P-LINK_	1905	6		WPA2-PSK A	ES	000aeb841905	
P-LINK_	0919	6		WPA2-PSK A	ES	000aeb130919	
	7065 50	10		WDVD DCK V	EC	60-207447071	
Refre	sh F	lease	e key the F	PIN code into your AP	's con	fig page	PIN
	F	PIN:	5526820	12			
				-			PBC
WPS Pro	gress :	Exch	ange WPS	Message			
						2 sec	Cancel

2. The following screen indicates a successful connection by WPS. Click **OK**.



Option 2

1. Press the WPS/QSS button on your router or AP.



2. Within 2 minutes, open TP-LINK Utility and click **WPS** tab. Click **PBC**.

	Link Stat	us	Profiles	Available Networ	k WF	S Information	
SSID		Chan	nel	Security		BSSID	
P-LINK_	Network	9		WPA2-PSI	< AES	002586123466	
P-LINK_	1122	4		WPA2-PS	KAES	40169f001122	
P-LINK_	1A0F	11		WPA2-PSI	AES	000aeb841a0f	
P-LINK_	8786	1		WPA2-PSI	KAES	c49046738786	
P-LINK	AFE_5G_1	36		WPA2-PSI	KAES	000aeb147afe	
530_5g_	rootap	149		No Encryp	tion	d85d4c021702	
P-LINK	1122_5G	44		WPA2-PSI	KAES	40169f001124	
P-LINK	BF50FA	1		WPA2-PSI	KAES	40169fbf50fa	
P-LINK	1905	6		WPA2-PSI	KAES	000aeb841905	
P-LINK	0919	6		WPA2-PSI	KAES	000aeb130919	
	7065 50	10		M/DA2 DQ	AEQ	60-207//7071	
Refre		Please PIN:	e key the F 7812936	PIN code into your	AP's cor	fig page	PIN PBC
							Cancel

3. The following screen indicates a successful connection by WPS. Click **OK**.



- > PIN
- 1. Open TP-LINK Utility and click **WPS** tab. Mark down the PIN displayed on the screen, and click **PIN**.

	Link Stat	us P	rofiles	Available Netwo	rk WF	S Information	1
P-LINK_1122 4 WPA2-PSK AES 40169f001122 P-LINK_1A0F 11 WPA2-PSK AES .000aeb841a0f P-LINK_7876 1 WPA2-PSK AES .49046738786 P-LINK_7AFE_5G_1 36 WPA2-PSK AES .000aeb147afe 530_5g_rootap 149 No Encryption d85d4c021702 P-LINK_1122_5G 44 WPA2-PSK AES 40169fb01124 P-LINK_1122_5G 44 WPA2-PSK AES 40169fb01124 P-LINK_1905 6 WPA2-PSK AES 000aeb841905 P-LINK_1905 6 WPA2-PSK AES 000aeb130919 P-LINK_0919 6 WPA2-PSK AES 000aeb130919 PLINK_706E 62 WDA2_PSK AES 000aeb130919 PLINK_706E 62 WDA2_PSK AES 000aeb130919 PLINK_706E 62 WDA2_PSK AES 000aeb130919 PLINK_706E 749 WDA2_PSK AES 000aeb130919	SID	Channe	9l	Security		BSSID	
D-LINK_1A0F 11 WPA2-PSK AES 000aeb841a0f D-LINK_8786 1 WPA2-PSK AES c49046738786 D-LINK_7AFE_5G_1 36 WPA2-PSK AES 000aeb147afe S30_5g_rootap 149 No Encryption d85d4c021702 D-LINK_1122_5G 44 WPA2-PSK AES 40169f001124 D-LINK_1905 6 WPA2-PSK AES 000aeb841905 D-LINK_1905 6 WPA2-PSK AES 000aeb841905 D-LINK_0919 6 WPA2-PSK AES 000aeb130919 D-LINK_706E_5C 49 WIDA2_DSK AES 60x327447074 Refresh Please key the PIN code into your AP's config page PI	P-LINK_Network	9		WPA2-PS	K AES	002586123466	
D-LINK_8786 1 WPA2-PSK AES c49046738786 D-LINK_7AFE_5G_1 36 WPA2-PSK AES 000aeb147afe S30_5g_rootap 149 No Encryption d85d4c021702 D-LINK_1122_5G 44 WPA2-PSK AES 40169f001124 D-LINK_1905 6 WPA2-PSK AES 40169fb50fa D-LINK_0919 6 WPA2-PSK AES 000aeb130919 D-LINK_706E_6C 48 WPA2-PSK AES 000aeb130919	P-LINK_1122	4		WPA2-PS	K AES	40169f001122	
D-LINK_7AFE_5G_1 36 WPA2-PSK AES 000aeb147afe 530_5g_rootap 149 No Encryption d85d4c021702 D-LINK_1122_5G 44 WPA2-PSK AES 40169f001124 D-LINK_1905 6 WPA2-PSK AES 40169fb0fa D-LINK_0919 6 WPA2-PSK AES 000aeb147afe D-LINK_0919 6 WPA2-PSK AES 000aeb841905 D-LINK_706E_5C 48 WPA2-PSK AES 000aeb130919	P-LINK_1A0F	11		WPA2-PS	K AES	000aeb841a0f	
530_5g_rootap 149 No Encryption d85d4c021702 P-LINK_1122_5G 44 WPA2-PSK AES 40169f001124 P-LINK_BF50FA 1 WPA2-PSK AES 40169fbf50fa P-LINK_1905 6 WPA2-PSK AES 000aeb841905 P-LINK_0919 6 WPA2-PSK AES 000aeb130919 P-LINK_706E_6C 48 WPA2-PSK AES 000aeb130919 P-LINK_706E_6C 48 WPA2-PSK AES 000aeb130919 P-LINK_706E_6C 48 WPA2-PSK AES 000aeb130919 PLINK_706E_6C 48 WPA2-PSK AES 000aeb130919	P-LINK_8786	1		WPA2-PS	K AES	c49046738786	
P-LINK_1122_5G 44 WPA2-PSK AES 40169f001124 P-LINK_BF50FA 1 WPA2-PSK AES 40169fbf50fa P-LINK_1905 6 WPA2-PSK AES 000aeb841905 P-LINK_0919 6 WPA2-PSK AES 000aeb130919 P-LINK_706E_5C 48 WDA2_PSK AES 000aeb130919 PLINK_706E_5C 48 WDA2_PSK AES 000aeb130919	P-LINK_7AFE_5G_1	36		WPA2-PS	K AES	000aeb147afe	
P-LINK_BF50FA 1 WPA2-PSK AES 40169fbf50fa P-LINK_1905 6 WPA2-PSK AES 000aeb841905 P-LINK_0919 6 WPA2-PSK AES 000aeb130919 P-LINK_7065 6 48 WPA2-PSK AES 000aeb130919 P-LINK_7065 6 48 WPA2-PSK AES 000aeb130919 Refresh Please key the PIN code into your AP's config page PI	530_5g_rootap	149		No Encry	otion	d85d4c021702	
D-LINK_1905 6 WPA2-PSK AES 000aeb841905 D-LINK_0919 6 WPA2-PSK AES 000aeb130919 D-LINK_706E_EC 49 WDA2_DSK AES 000aeb130919 Refresh Please key the PIN code into your AP's config page PI	P-LINK_1122_5G	44		WPA2-PS	K AES	40169f001124	
P-LINK_0919 6 WPA2-PSK AES 000aeb130919 DUNK_706E 52 49 WDA2 DSK AES 60.3277447071 Refresh Please key the PIN code into your AP's config page PI	P-LINK_BF50FA	1		WPA2-PS	K AES	40169fbf50fa	
Refresh Please key the PIN code into your AP's config page PI	P-LINK_1905	6		WPA2-PS	K AES	000aeb841905	
Refresh Please key the PIN code into your AP's config page	P-LINK_0919	6		WPA2-PS	K AES	000aeb130919	
	LINK TORE FO	10		1A/DA.2_DC	K VEG	60-207//7074	
PIN: 78129368 PB		_	key the P 7812936		AP's cor	ifig page	PIN PBC

- 2. Within 2 minutes, log in to the Web Management page of your router or AP. Go to its **WPS** page, enter the PIN of the adapter in the corresponding field and click **Connect**.
- 3. The following screen indicates a successful connection by WPS. Click **OK**.



4.3 Management

TP-LINK Utility provides you with an easy way to manage your adapter. It includes the following sections:

Link Status - View the information of the current Wi-Fi network connection and of the adapter.

<u>Profiles</u> - Save or manage various Wi-Fi network connection settings.

Information - View the utility version and the driver version of your adapter.

Open the TP-LINK Utility and then click the **Link Status**, **Profiles** or **Information** tab to manage the corresponding section of your adapter.

4.3.1 Link Status

You can view the signal strength of the Wi-Fi network, the MAC address of the adapter and other information of the link status as shown in the following figure.

• • •	TP-LINK	Wireless Configuratio	n Utility	
Link Status	Profiles	Available Network	WPS	Information
MAC Address :	c4e984094	a82		
SSID :	TP-LINK_N	etwork		
BSSID :	002586123	466		
Security :	WPA2-PSK	AES		
Connection :	Connected			
Network Type :	Infrastructu	ire		
Channel :	9			
Link Speed(Mbps) :	144			
Signal Strength :				100%
				Turn Radio OFF

4.3.2 Profiles

The **Profiles** screen lets you save and manage different Wi-Fi network connection settings as profiles so that you can quickly and simply connect to your network. Moreover, you can join a hidden Wi-Fi network that does not broadcast its SSID by adding a profile, provided that you know its wireless settings, such as SSID, security type, and encryption type. For details, please refer to the instructions below: <u>To add a new profile</u>, <u>To join a Wi-Fi network</u>, <u>To manage an existing profile</u>.

00		TP-LINK	Wireless Configuratio	n Utility		
	Link Status	Profiles	Available Network	WPS	Information	
State	Profile Name		SSID		Network Type	
× -	TP-LINK_Network	k	TP-LINK_Network		Infrastructure	
	Home		TP-LINK_Network_5G		Infrastructure	
	Add	Edit	Remove		Apply	

- > To add a new profile
- 1. Click the Add button, and then a new window will open.
- 2. Complete the settings as shown in the following figure, and click **OK**.

	Wireless Netw	vork Secur	ity Properties	
Profile Name : Home SSID : TP-LINK	_Network_5G			
Wireless Network Security Prope	erties			
Network Authentication :	WPA2_PSK	0		
Data Encryption :	TKIP	0		
ASCII				
Key index (advanced) :	1	0		
Network key :	•••••			
Confirm network key :	•••••			
			Cancel	ОК

Profile Name - Enter a name for your profile, such as Home, Office, Coffeehouse. Do not enter the profile name that already exists.

SSID - Enter the name of your Wi-Fi network.

Wireless Network Security Properties:

Select or enter the corresponding wireless settings, including **Network Authentication**, **Data Encryption** and **Network key**, which should be the same as those of your Wi-Fi network. Then click **OK**.

> To join a Wi-Fi network

If you want to join a Wi-Fi network that listed in the profile screen, select the profile and click **Apply** button in the bottom right corner.

> To manage an existing profile

If you want to change the name or the wireless settings of an existing profile, select it and click the **Edit** button in the Profile screen, then you can edit the settings of this profile. If you want to delete a profile that you no longer use, select it and click the **Remove** button.

4.4 Uninstall Driver and Utility

- 1. Insert the CD and run it manually.
- 2. Go to Archer T4UH > Mac OS X Driver > Mac OS X version.zip > Uninstall.command.
- 3. As shown in the figure below, a command window will pop up. Please type the password of the root user to uninstall the software.



4. Wait till the "**Process completed**" shows up, then restart your computer to finish the uninstallation.

	☆ tplink — Uninstall.command — 80×24
	g 19 14:55:38 on ttys000 ink\$ /Users/tplink/Downloads/Mac\ OS\ X\ 10.7_10.10/Uninstall
Please type the par Uninstalling Scrip Password: Uninstalling UI Removing Driver Removing Pkg Uninstall Complete Logout	

PNote:

The CD is included in the package. If your CD does not work or your computer doesn't support the CD, you can also download the driver and utility from the TP-LINK website (www.tp-link.com).

Chapter 5 Linux

Please visit the TP-LINK support website, find and download the compatible version of driver for your Archer T4UH at <u>www.tp-link.com</u>.

Appendix A: Specifications

Normal			
Interface	USB 3.0 Interface		
Standards	IEEE802.11a; IEEE802.11b; IEEE802.11g; IEEE802.11n; IEEE802.1x, IEEE802.11ac		
Operating System	Windows XP, Windows 7, Windows 8, Windows 8.1, Windows 10 Mac OS X 10.7 - 10.10 Linux		
Throughput	2.4GHz:300Mbps (Maximal) 5GHz: 867Mbps (Maximal)		
Data Security	WEP, WPA / WPA2, WPA-PSK / WPA2-PSK		
Frequency*	2.4~2.4835GHz, 5.15~5.25GHz, 5.25~5.35GHz, 5.475~5.725GHz, 5.745~5.825GHz		
Antenna	Two dual-band 2dBi antennas(RP-SMA)		

Environmental and Physical		
Working Temperature	0℃~40℃ (32°F~104°F)	
Storage Temperature	-40℃~70℃(-40°F~158°F)	
Working Humidity	10%~90% RH, Non-condensing	
Storage Humidity	5%~90% RH, Non-condensing	

* 1. Only 2.412GHz \sim 2.462GHz is allowed to be used in USA, which means only channel 1 \sim 11 is available for American users to choose.

 \ast 2. Rules on the use of 5GHz band channels may vary according to different national laws.

Appendix B: Glossary

- 802.11ac IEEE 802.11ac is a wireless computer networking standard of 802.11.This specification will enable multi-station WLAN throughput of at least 1 gigabit per second. This is accomplished by extending the air interface concepts embraced by 802.11n: wider RF bandwidth, more MIMO spatial streams, multi-user MIMO, and high-density modulation (up to 256 QAM).
- 802.11n 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- 802.11g Specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- 802.11b The 802.11b standard specifies a wireless product networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- 802.11a Specification for wireless networking at 54 Mbps using OFDM modulation and operating in radio band at 5GHz.
- Ad hoc Network An ad hoc network is a group of computers, each with a Wireless Adapter, connected as an independent 802.11 wireless LAN. Ad hoc wireless computers operate on a peer-to-peer basis, communicating directly with each other without the use of an access point. Ad hoc mode is also referred to as an Independent Basic Service Set (IBSS) or as peer-to-peer mode, and is useful at a departmental scale or SOHO operation.
- Infrastructure Network An infrastructure network is a group of computers or other devices, each with a Wireless Adapter, connected as an 802.11 wireless LAN. In infrastructure mode, the wireless devices communicate with each other and to a wired network by first going through an access point. An infrastructure wireless network connected to a wired network is referred to as a Basic Service Set (BSS). A set of two or more BSS in a single network is referred to as an Extended Service Set (ESS). Infrastructure mode is useful at a corporation scale, or when it is necessary to connect the wired and wireless networks.
- SSID A Service Set Identification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is

typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name. *See also* Wireless Network Name and ESSID.

- WEP (Wired Equivalent Privacy) A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard. To gain access to a WEP network, you must know the key. The key is a string of characters that you create. When using WEP, you must determine the level of encryption. The type of encryption determines the key length. 128-bit encryption requires a longer key than 64-bit encryption. Keys are defined by entering in a string in HEX (hexadecimal using characters 0-9, A-F) or ASCII (American Standard Code for Information Interchange alphanumeric characters) format. ASCII format is provided so you can enter a string that is easier to remember. The ASCII string is converted to HEX for use over the network. Four keys can be defined so that you can change keys easily.
- Wi-Fi A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.
- WPA (Wi-Fi Protected Access) A wireless security protocol uses TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.